CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC 17025 :2005

TEST REPORT ON CEMENT

*CLIENT	:	Asst. Executive Engineer, Purpose Sub Division, BBMP, Bangalore.
*AGENCY	:	Technical Manager, CEPCI , Bangalore.
*NAME OF THE WORK	:	Developmental works for providing drinking water facility in Bagalagunte Ward No:14, BBMP, Bangalore.
REFERENCE	:	EE/PD/DZ/W/CI/03/2015-16 Dated: 10/05/2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	15.10.2016
PERIOD OF TESTING	:	15.10.2016 to 17.10.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS:4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS:4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS:4031 (Part -5) 1988(RA-2009)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS:4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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- The results indicated above are based on the tests carried out on the samples received in the laboratory.
- Any Query regarding the report must be reported within 30 days from the date of testing.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Sub No:- CTCE/BBMP/W.No.14/KRIDL/CSR.10/1686/AGO/GR/2016-17 : 17.10.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Projects Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of Work	: Developmental works for providing drinking water facility in Bagalagunte Ward No.14, BBMP, Bangalore.
Reference	: EE/PD/DZ/WO/03/2015-16 Dated: 10.03.2016
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 15.10.2016
Date of Testing	: 17.10.2016

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	97.10	95-100	85-100
10	31.98	25-55	0-20
4.75	2.48	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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T-2277

Job No: CTCE/BBMP/W.No.14/KRIDL/CSR 10/168e/CUBE/2016-17 17.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: Asst. Executive Engineer, Projects Sub Division, BBMP, Bangalore
*Agency	: Technical Manager, KRIDL, Bangalore.
*Name of the work	: Developmental works for providing drinking water facility in Bagalagunte Ward No.14, BBMP, Bangalore.
Reference	: EE/PD/DZ/WO/03/2015-16 Dated: 10.03.2016
*Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 17.11.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.10.2016	17.11.2016	8.352	493.7	21.94
2	20.10.2016	17.11.2016	8.274	486.5	21.62
3	20.10.2016	17.11.2016	8.463	510.2	22.68

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Building & Highway Material Testing Laboratory

NABL Accredited Laboratory as per ISO / IEC 17025 :2005

Certificate No: CTCE/KRIDL/CSR-10/1086/CUBE/2016-17 17.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

To,	: Asst. Executive Engineer, Projects Sub Division, BBMP, Bangalore.
Attn:	: Technical Manager, KRIDL, Bangalore.
Name of the work	: Developmental works for providing drinking water facility in Bagalagunte Ward No.14, BBMP, Bangalore.
Reference	: EE/PD/DZ/WO/03/2015-16 Dated: 10.03.2016
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day
Sample Received on	: 17.11.2016

Sl.No's	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.10.2016	17.11.2016	8.256	493.8	21.95
2	20.10.2016	17.11.2016	8.475	515.7	22.92
3	20.10.2016	17.11.2016	8.312	506.6	22.52

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